

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method for assigning priorities, comprising:
under control of a primary control unit,
receiving a request to manipulate data;
determining a type of the request, wherein the type of the request includes a synchronous copy command, an asynchronous copy command, and an establish with copy command;
assigning a priority to the request based on the type of the request; and
sending a command to a secondary control unit, wherein the command includes the request and the assigned priority, wherein the primary control unit and the secondary control unit allocate resources to handle the request based on the assigned priority; and under control of the secondary control unit, using the priority assigned to the request by the primary control unit to process the request.
2. (Original) The method of claim 1, wherein the request is issued with a synchronous Peer-to-Peer Remote Copy command and further comprising:
assigning the request a high priority.
3. (Original) The method of claim 1, wherein the request is issued with an asynchronous Peer-to-Peer Remote Copy command and further comprising:
assigning the request a medium priority.
4. (Previously Presented) The method of claim 1, wherein the request is issued with an Extended Distance Peer-to-Peer Remote Copy command and further comprising:
assigning the request a medium priority.
5. (Original) The method of claim 1, wherein the request is issued with an establish with copy command and further comprising:

assigning the request a low priority.

6. (Previously Presented) The method of claim 1, wherein the request is issued with a synchronous Peer-to-Peer Remote Copy command and further comprising:
receiving a host priority with the request; and
mapping the host priority to a priority in a high priority range having multiple priority values based on the host priority, pending Input/Output (I/O) requests, and available resources.

7. (Currently Amended) The method of claim [[6]] 1, further comprising:
mapping the host priority based on the host priority and one of pending requests and available resources.

8. (Original) The method of claim 1, further comprising:
updating a priority for a pending request.

9. (Cancelled)

10. (Cancelled)

11-30. (Cancelled)

31. (New) An article of manufacture including program logic for assigning priorities, wherein the program logic is executed on a processor and causes operations to be performed, the operations comprising:

under control of a primary control unit,
receiving a request to manipulate data;
determining a type of the request, wherein the type of the request includes a synchronous copy command, an asynchronous copy command, and an establish with copy command;
assigning a priority to the request based on the type of the request; and

sending a command to a secondary control unit, wherein the command includes the request and the assigned priority, wherein the primary control unit and the secondary control unit allocate resources to handle the request based on the assigned priority; and under control of the secondary control unit, using the priority assigned to the request by the primary control unit to process the request.

32. (New) The article of manufacture of claim 31, wherein the request is issued with a synchronous Peer-to-Peer Remote Copy command and wherein the operations for assigning further comprise:

assigning the request a high priority.

33. (New) The article of manufacture of claim 31, wherein the request is issued with an asynchronous Peer-to-Peer Remote Copy command and wherein the operations for assigning further comprise:

assigning the request a medium priority.

34. (New) The article of manufacture of claim 31, wherein the request is issued with an Extended Distance Peer-to-Peer Remote Copy command and wherein the operations for assigning further comprise:

assigning the request a medium priority.

35. (New) The article of manufacture of claim 31, wherein the request is issued with an establish with copy command and wherein the operations for assigning further comprise:

assigning the request a low priority.

36. (New) The article of manufacture of claim 31, wherein the request is issued with a synchronous Peer-to-Peer Remote Copy command and wherein the operations further comprise:

receiving a host priority with the request; and

mapping the host priority to a priority in a high priority range having multiple priority values based on the host priority, pending Input/Output (I/O) requests, and available resources.

37. (New) The article of manufacture of claim 31, wherein the operations further comprise:

mapping the host priority based on the host priority and one of pending requests and available resources.

38. (New) The article of manufacture of claim 31, wherein the operations further comprise:

updating a priority for a pending request.

39. (New) A system for assigning priorities, comprising:

under control of a primary control unit, hardware logic for:

receiving a request to manipulate data;

determining a type of the request, wherein the type of the request includes a synchronous copy command, an asynchronous copy command, and an establish with copy command;

assigning a priority to the request based on the type of the request; and

sending a command to a secondary control unit, wherein the command includes the request and the assigned priority, wherein the primary control unit and the secondary control unit allocate resources to handle the request based on the assigned priority; and under control of the secondary control unit, using the priority assigned to the request by the primary control unit to process the request.

40. (New) The system of claim 39, wherein the request is issued with a synchronous Peer-to-Peer Remote Copy command and wherein the hardware logic for assigning further comprises:

assigning the request a high priority.

41. (New) The system of claim 39, wherein the request is issued with an asynchronous Peer-to-Peer Remote Copy command and wherein the hardware logic for assigning further comprises:

assigning the request a medium priority.

42. (New) The system of claim 39, wherein the request is issued with an Extended Distance Peer-to-Peer Remote Copy command and wherein the hardware logic for assigning further comprise:

assigning the request a medium priority.

43. (New) The system of claim 39, wherein the request is issued with an establish with copy command and wherein the hardware logic for assigning further comprise:

assigning the request a low priority.

44. (New) The system of claim 39, wherein the request is issued with a synchronous Peer-to-Peer Remote Copy command and wherein the hardware logic further comprises:

receiving a host priority with the request; and

mapping the host priority to a priority in a high priority range having multiple priority values based on the host priority, pending Input/Output (I/O) requests, and available resources.

45. (New) The system of claim 39, wherein the hardware logic further comprises:

mapping the host priority based on the host priority and one of pending requests and available resources.

46. (New) The system of claim 39, wherein the hardware logic further comprises:

updating a priority for a pending request.